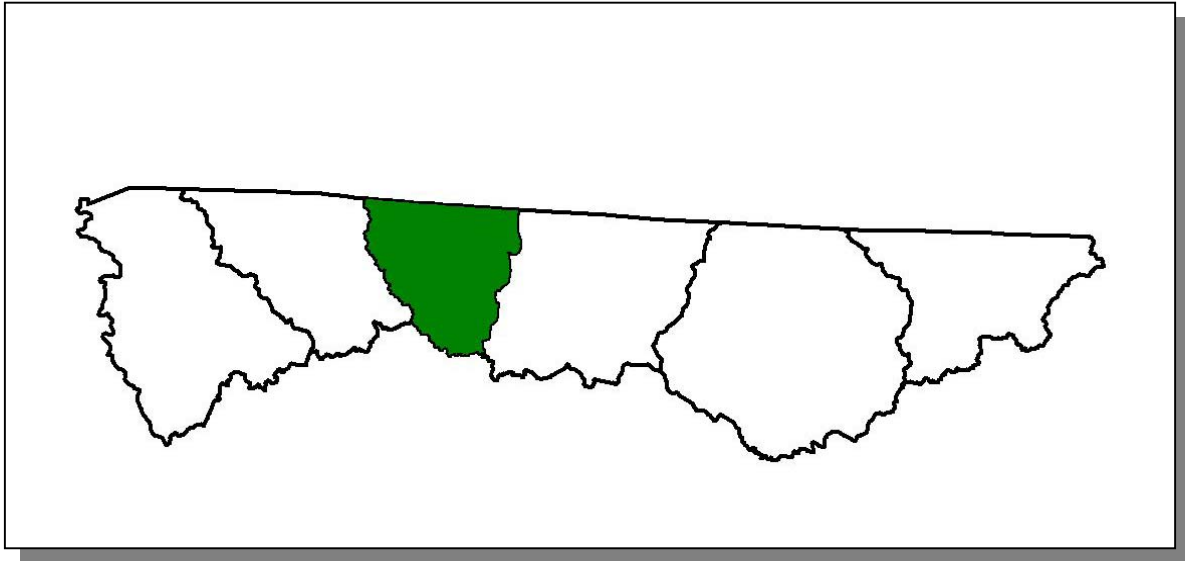
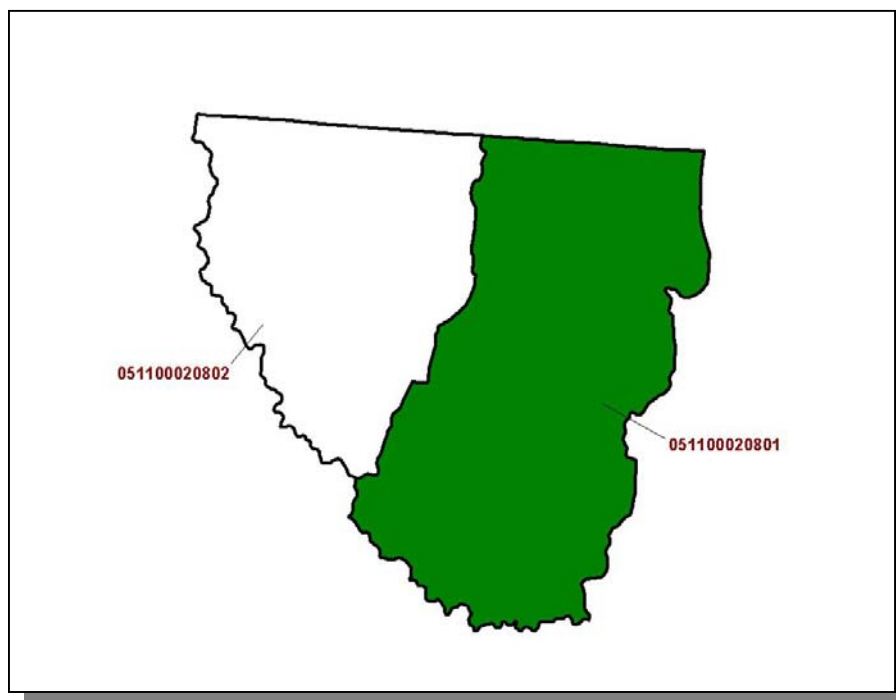


**4.2.D. 0511000208.**

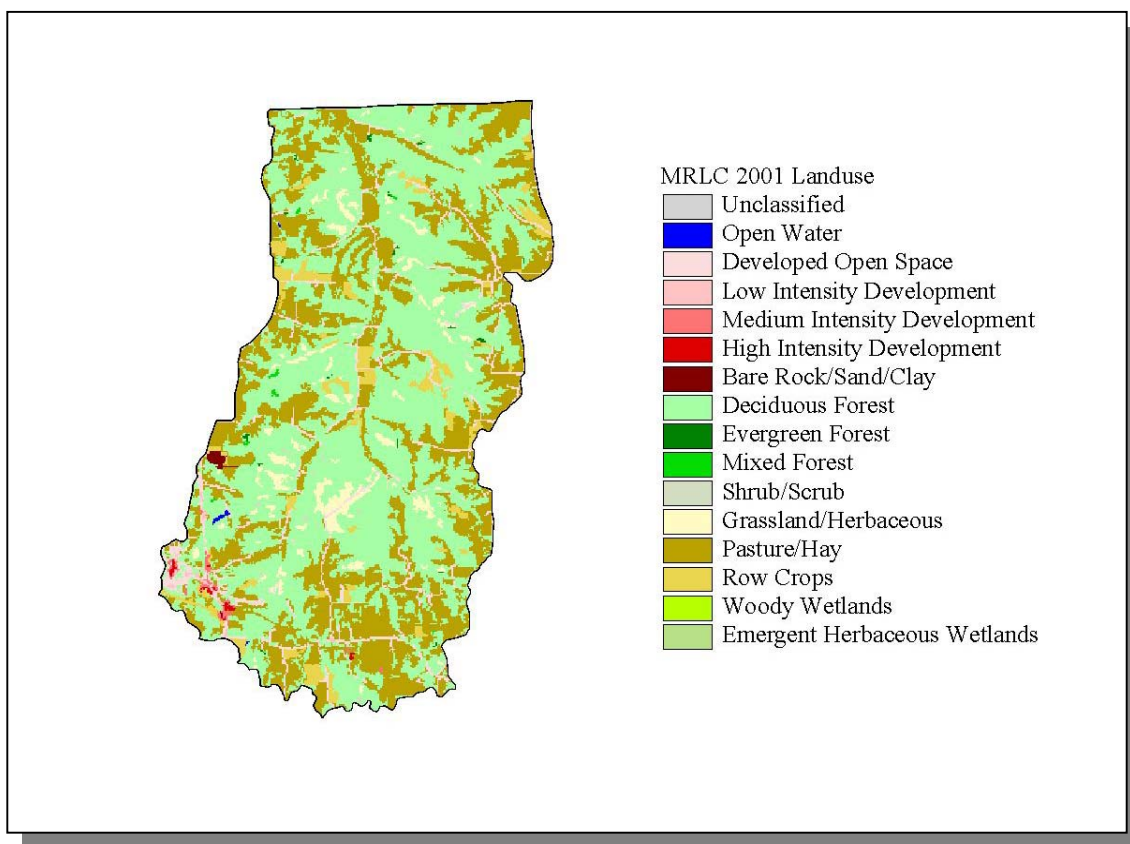


**Figure 4-80. Location of Subwatershed 0511000208.** All Barren River HUC-10 subwatershed boundaries are shown for reference.

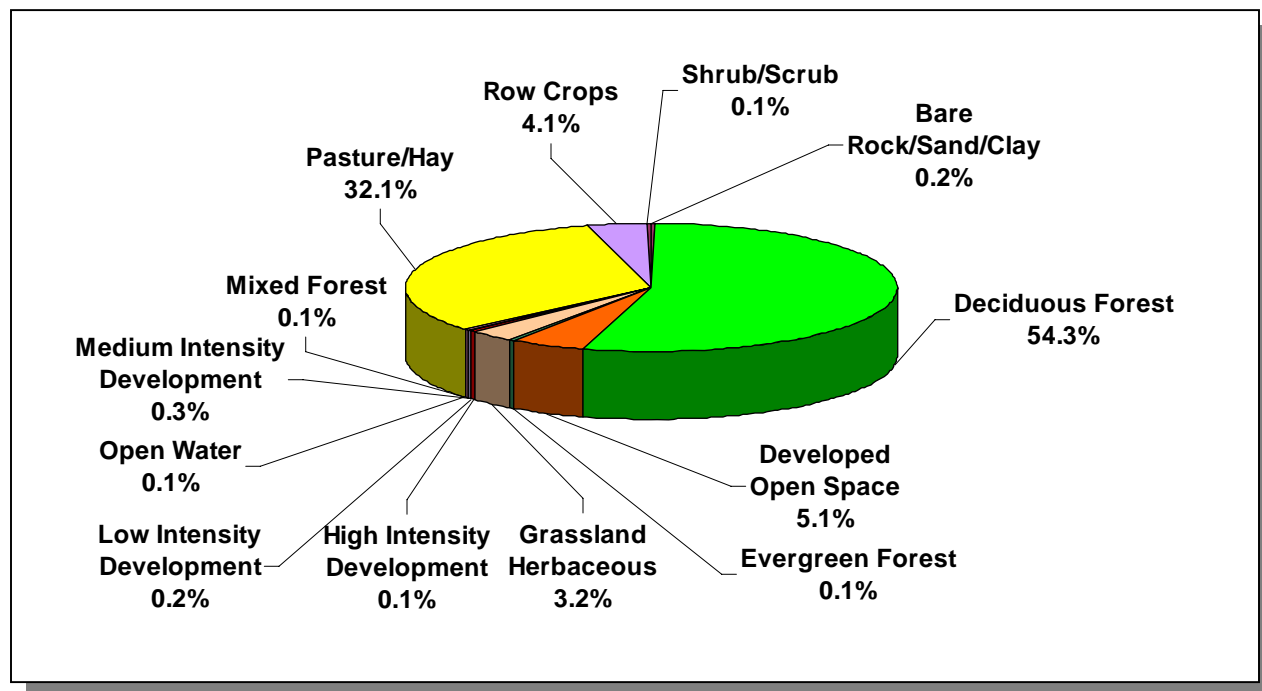
**4.2.D.i.** 051100020801 Trammel Creek).



**Figure 4-81. Location of Subwatershed 051100020801.** All Barren River HUC-12 subwatershed boundaries are shown for reference.

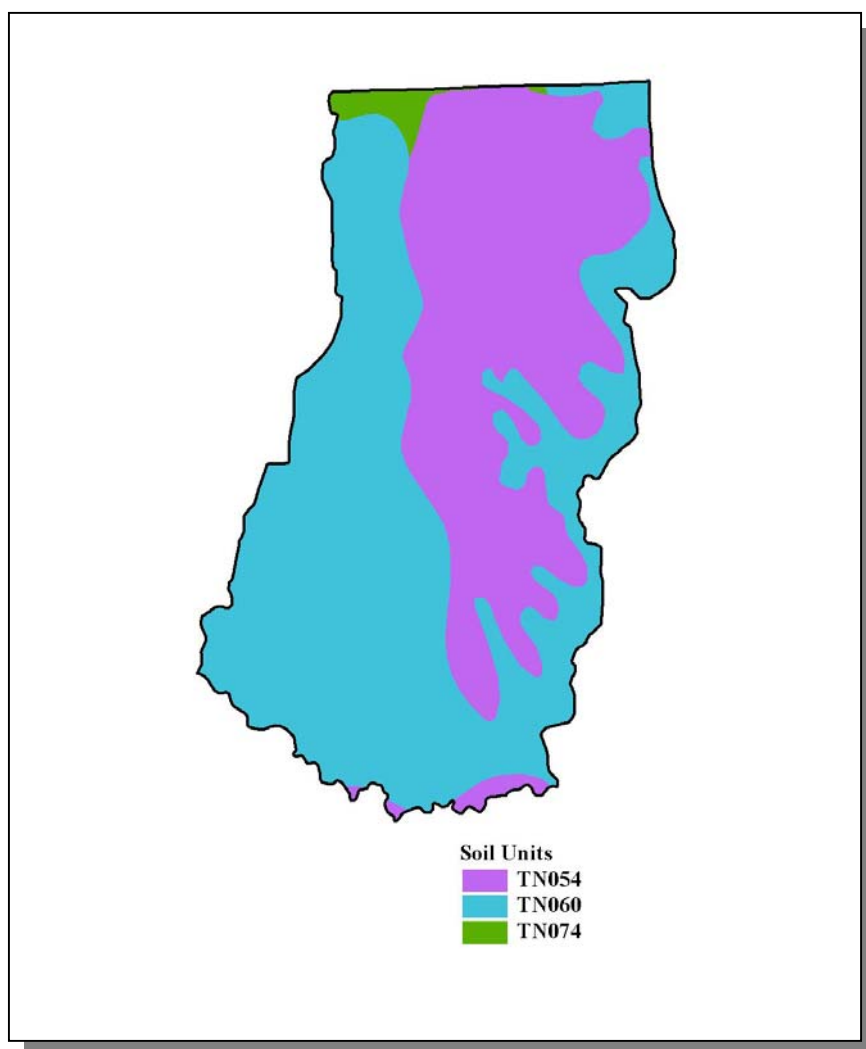


**Figure 4-82. Illustration of Land Use Distribution in Subwatershed 051100020801.**



**Figure 4-83. Land Use Distribution in Subwatershed 051100020801.** More information is provided in Appendix IV.

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**Figure 4-84. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051100020801.**

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN054	0.00	C	3.04	4.84	Loam	0.32
TN060	20.00	B	1.30	5.32	Silty Loam	0.39
TN074	14.00	B	1.44	4.94	Loam	0.33

**Table 4-69. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051100020801.** The definition of “Hydrologic Group” is provided in Appendix IV.

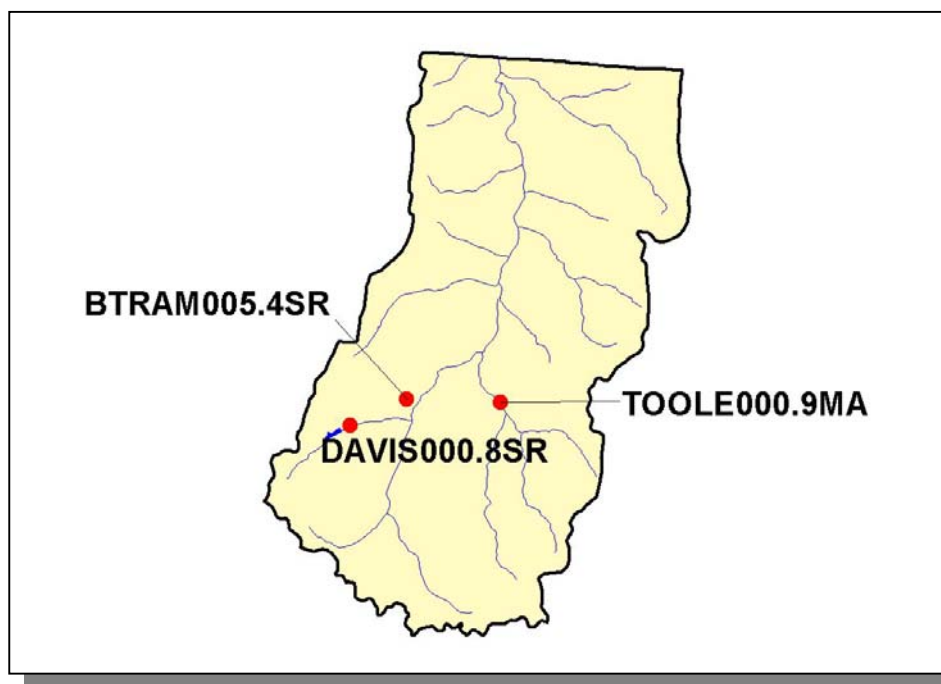
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County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Macon	15,906	17,854	20,386	5.68	903	1,014	1,157	28.1
Sumner	103,281	121,936	130,449	1.54	1,586	1,872	2,003	26.3
<b>Totals</b>	<b>119,187</b>	<b>139,790</b>	<b>150,835</b>		<b>2,489</b>	<b>2,886</b>	<b>3,160</b>	<b>27.0</b>

**Table 4-70. Population Estimates in Subwatershed 051100020801.**

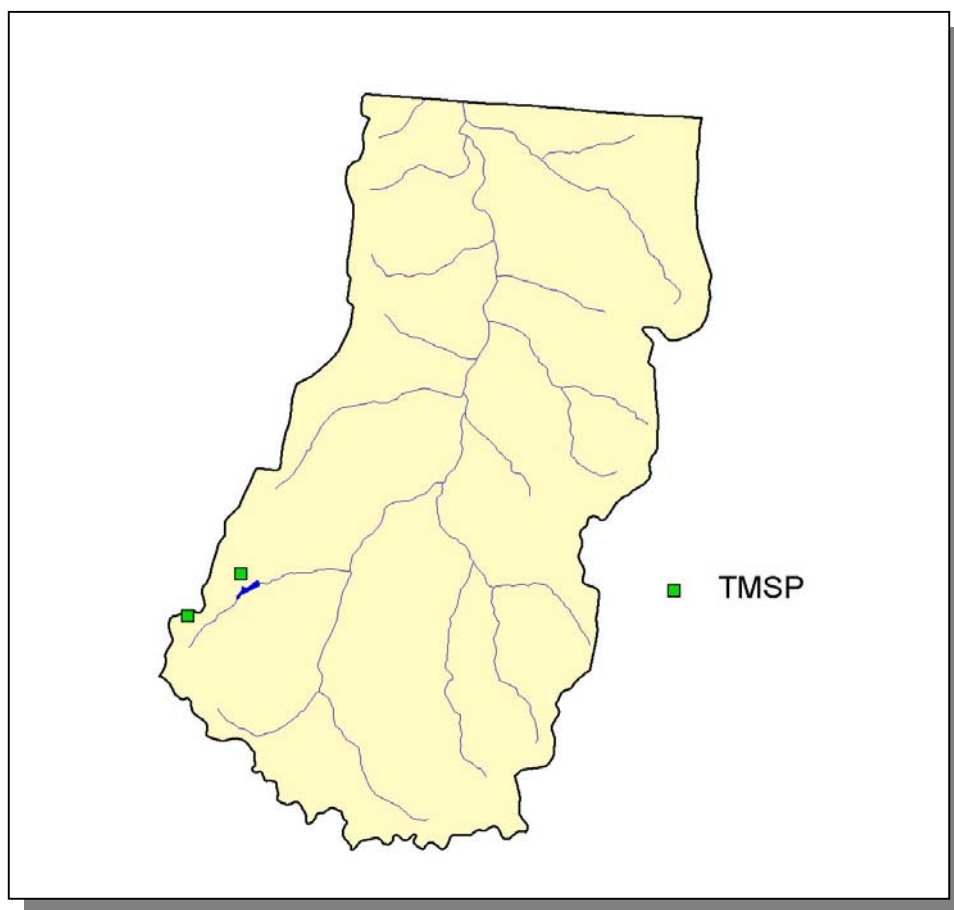
Populated Place	County	Population	NUMBER OF HOUSING UNITS			
			Total	Public Sewer	Septic Tank	Other
Westmoreland	Sumner	1,726	709	625	82	2

**Table 4-71. Housing and Sewage Disposal Practices of Select Communities in Subwatershed 051100020801.**



**Figure 4-85. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 051100020801.** More information, including site names and locations, and station numbers for sites located in the watershed outside of Tennessee, is provided in Appendix IV.

**4.2.D.i.a. Point Source Contributions.**



**Figure 4-86. Location of Permits Issued in Subwatershed 051100020801.** More information, including the names of facilities, is provided in Appendix IV.



**Figure 4-87. Location of TMSP Sites in Subwatershed 051100020801.** More information, including the names of facilities, is provided in Appendix IV.



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**4.2.D.i.b. Nonpoint Source Contributions.**

LIVESTOCK COUNTS					
Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
1,270	2,319	46	<5	182	10

**Table 4-72. Summary of Livestock Count Estimates in Subwatershed 051100020801.**  
According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

LIVESTOCK COUNTS						
County	Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
Macon	15,039	26,098	318	675	2,377	111
Sumner	22,296	45,116	1,515	50	2,500	189

**Table 4-73. Summary of Livestock Count Estimates in Macon and Sumner Counties.**  
According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

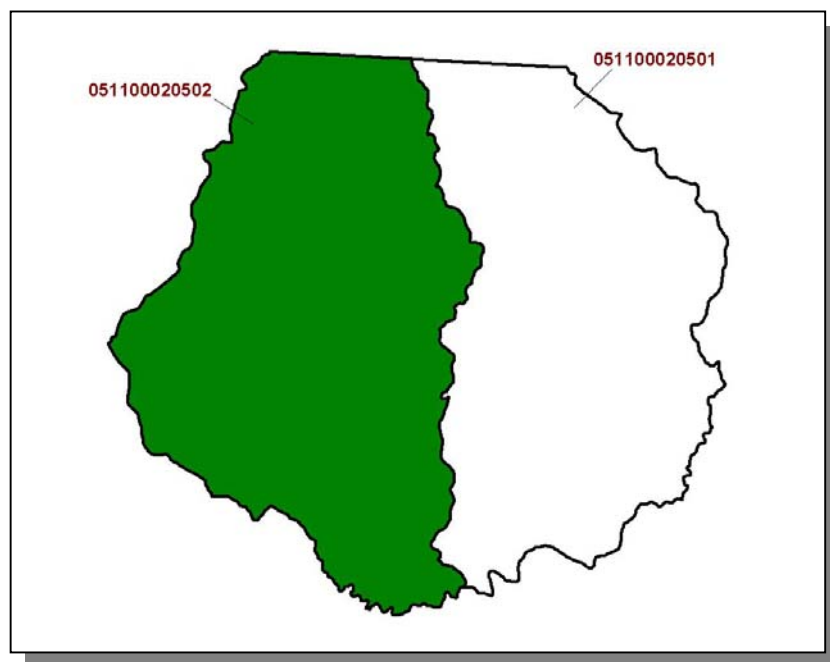
County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Sumner	88.2	88.2	2.0	6.3
Macon				

**Table 4-74. Forest Acreage and Annual Removal Rates (1987-1994) in Sumner and Macon Counties.**

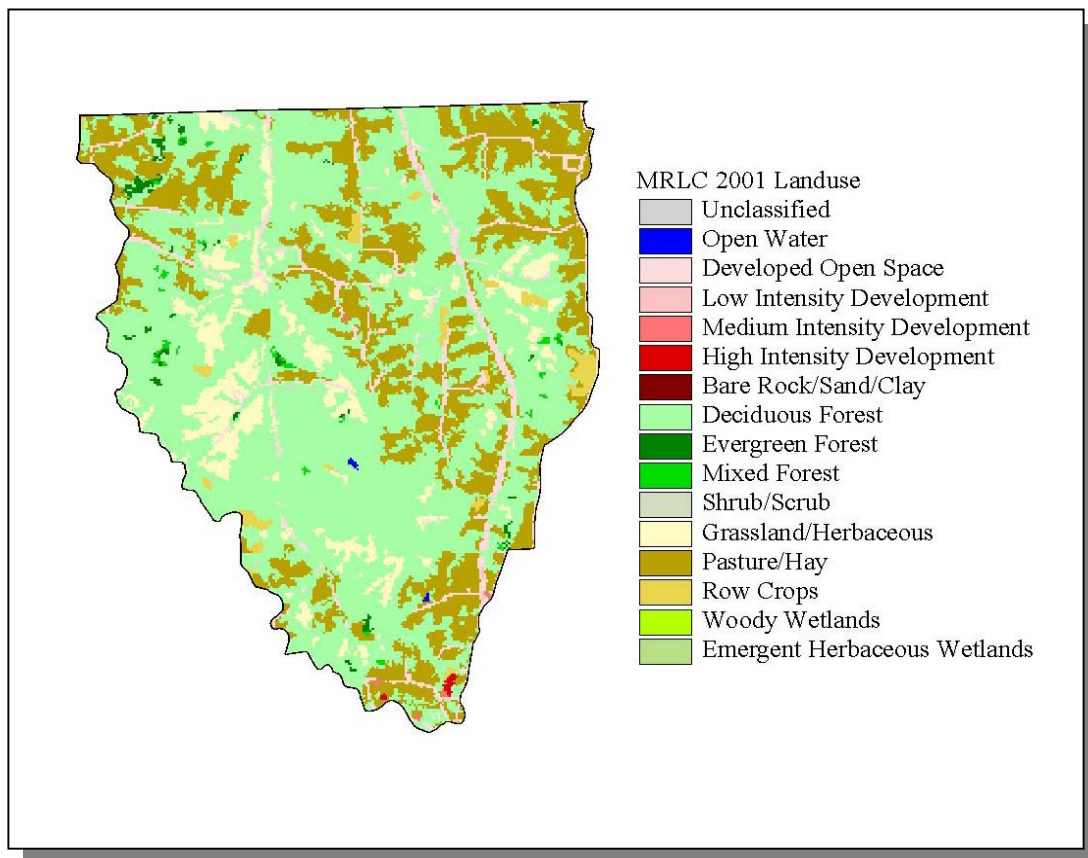
CROPS	TONS/ACRE/YEAR
Legumes (Pastureland)	0.07
Grass (Pastureland)	0.44
Grass (Hayland)	0.24
Legumes (Hayland)	0.13
Legumes, Grass (Hayland)	0.17
Grass, Forbs, Legumes (Mixed Pasture)	0.87
Corn (Row Crops)	6.70
Soybeans (Row Crops)	11.27
Tobacco (Row Crops)	11.12
Wheat (Close-Grown Cropland)	3.43
Other Vegetable and Truck Crop	5.48
Other Cropland not Planted	19.23
Conservation Reserve Program Lands	0.27
Farmsteads and Ranch Headquarters	0.22

**Table 4-75. Annual Estimated Total Soil Loss in Subwatershed 051100020801.**

**4.2.D.ii.** 051100020802 (Little Trammel Creek).

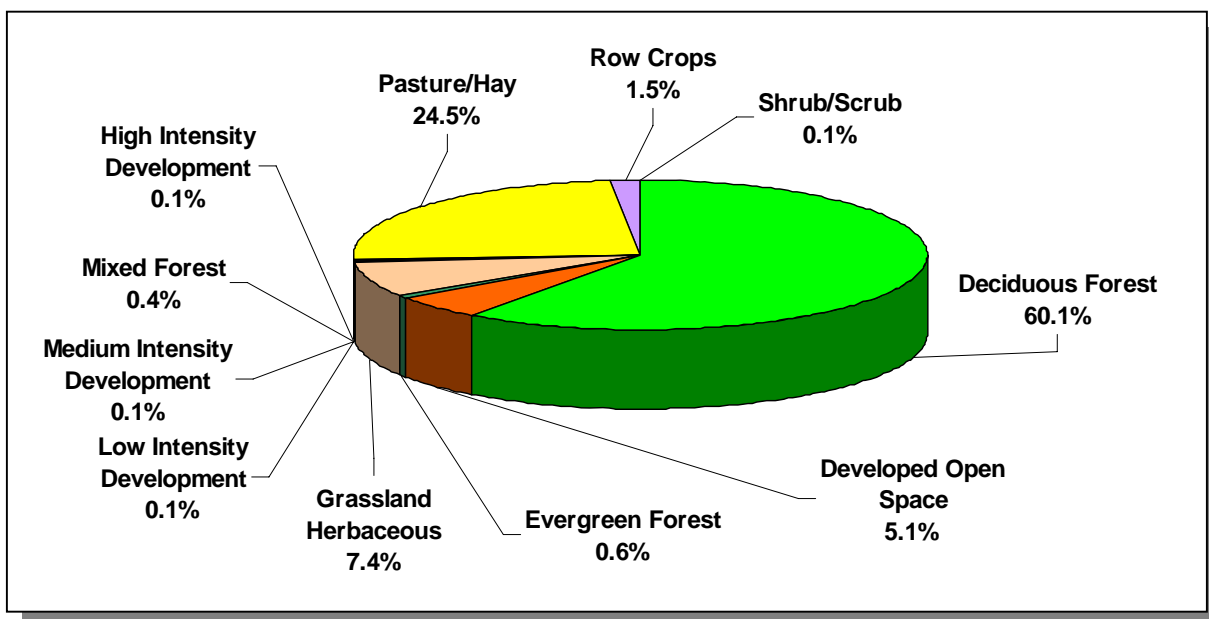


**Figure 4-88. Location of Subwatershed 051100020802.** All Barren River HUC-12 subwatershed boundaries are shown for reference.

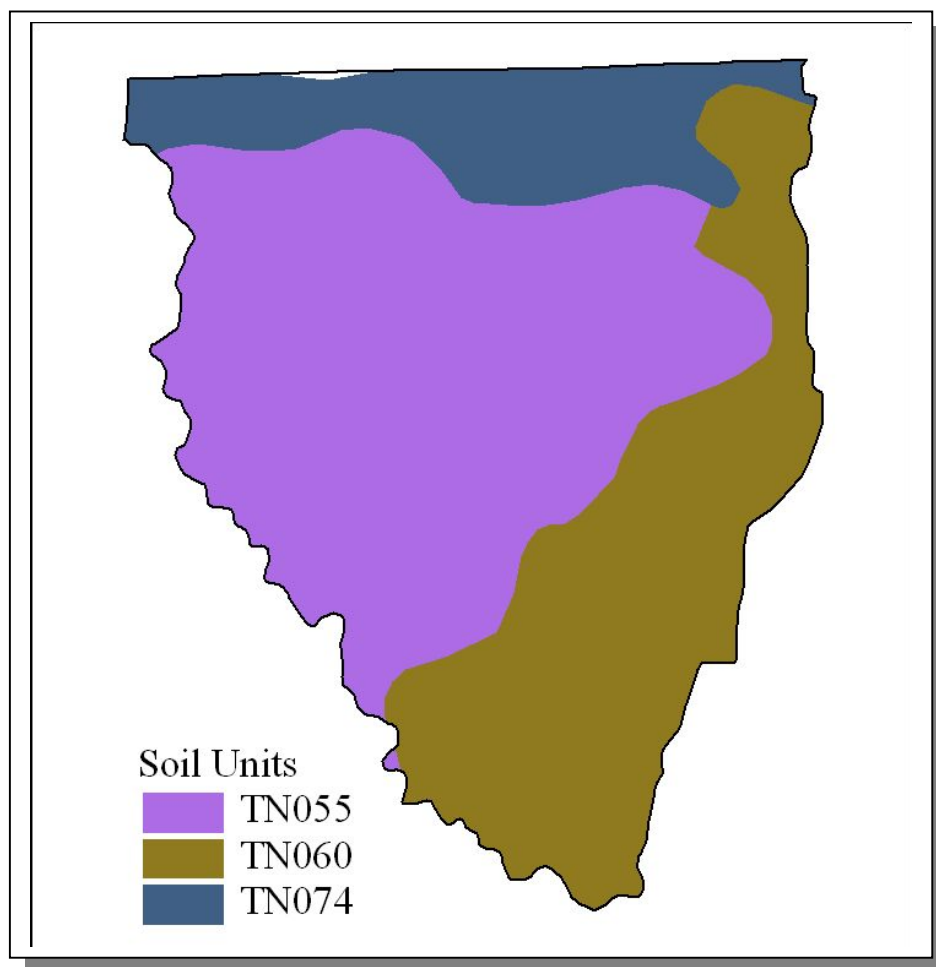


**Figure 4-89. Illustration of Land Use Distribution in Subwatershed 051100020802.**

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**Figure 4-90. Land Use Distribution in Subwatershed 051100020802.** More information is provided in Appendix IV.



**Figure 4-91. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051100020802.**

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN055	3.00	C	0.17	5.24	Loam	0.34
TN060	5.00	B	0.19	5.32	Silty Loam	0.39
TN074	7.00	B	0.17	4.94	Loam	0.33

**Table 4-76. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051100020802.** The definition of "Hydrologic Group" is provided in Appendix IV.

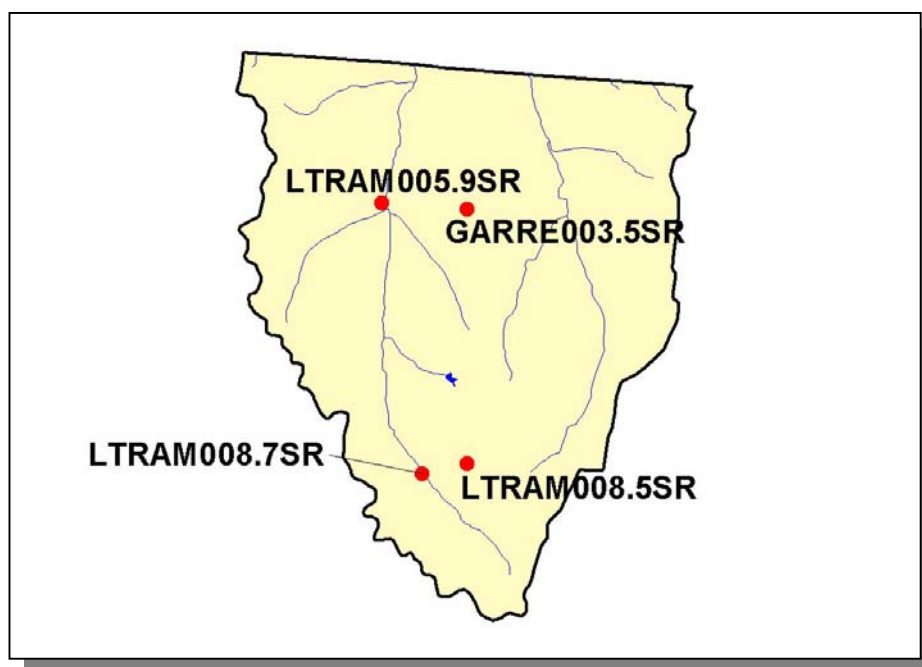
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County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Sumner	103,281	121,936	130,449	3.21	3,316	3,915	4,188	26.3

*Table 4-77. Population Estimates in Subwatershed 051100020802.*

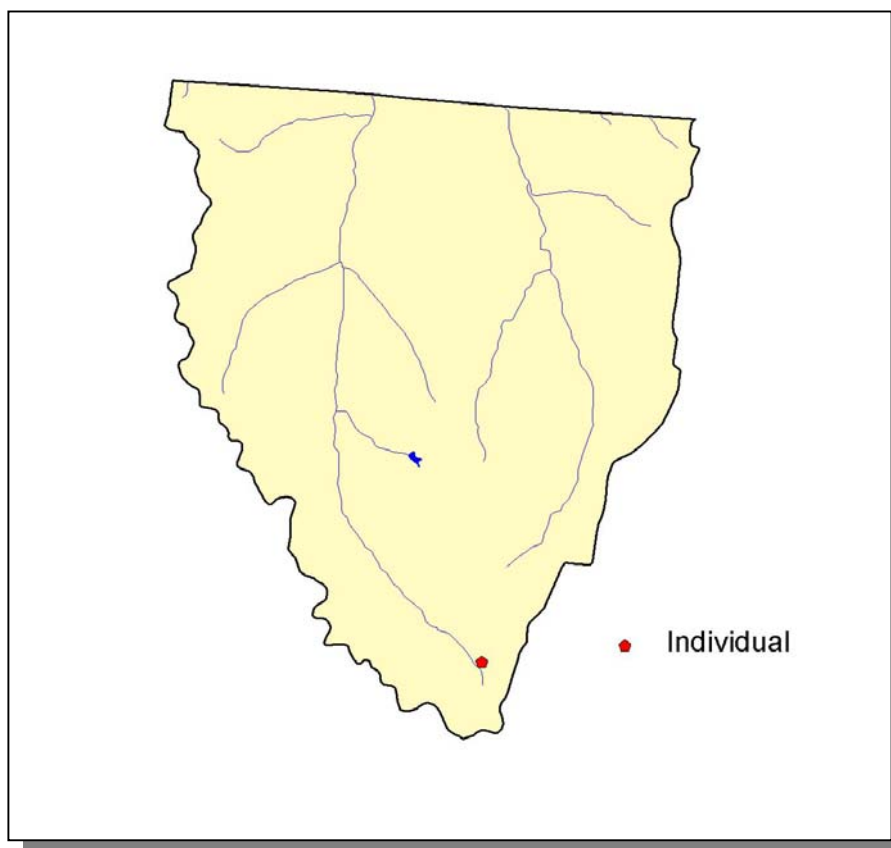
Populated Place	County	Population	NUMBER OF HOUSING UNITS			
			Total	Public Sewer	Septic Tank	Other
Westmoreland	Sumner	1,726	709	625	82	2

*Table 4-78. Housing and Sewage Disposal Practices of Select Communities in Subwatershed 051100020802.*

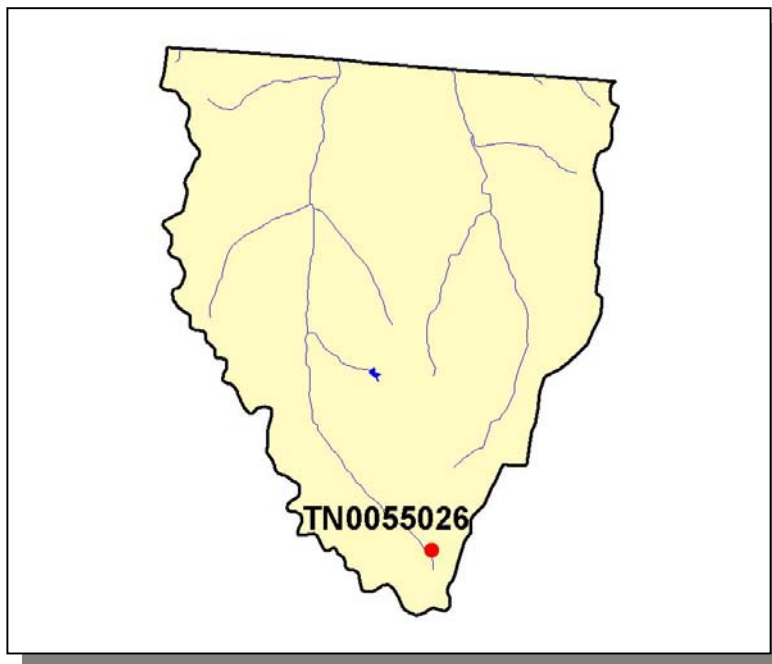


*Figure 4-92. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 051100020802. More information, including site names and locations, and station numbers for sites located in the watershed outside of Tennessee, is provided in Appendix IV.*

**4.2.D.ii.a. Point Source Contributions.**



**Figure 4-93. Location of Permits Issued in Subwatershed 051100020802.** More information, including the names of facilities, is provided in Appendix IV.



**Figure 4-94. Location of Active NPDES Sites in Subwatershed 051100020802.** More information, including the names of facilities, is provided in Appendix IV.



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**4.2.D.ii.b. Nonpoint Source Contributions.**

LIVESTOCK COUNTS					
Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
823	1,664	56	<5	92	7

**Table 4-79. Summary of Livestock Count Estimates in Subwatershed 051100020802.** According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

LIVESTOCK COUNTS						
County	Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
Sumner	22,296	45,116	1,515	50	2,500	189

**Table 4-80. Summary of Livestock Count Estimates in Sumner County.** According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Sumner	88.2	88.2	2	6.3

**Table 4-81. Forest Acreage and Annual Removal Rates (1987-1994) in Sumner County.**

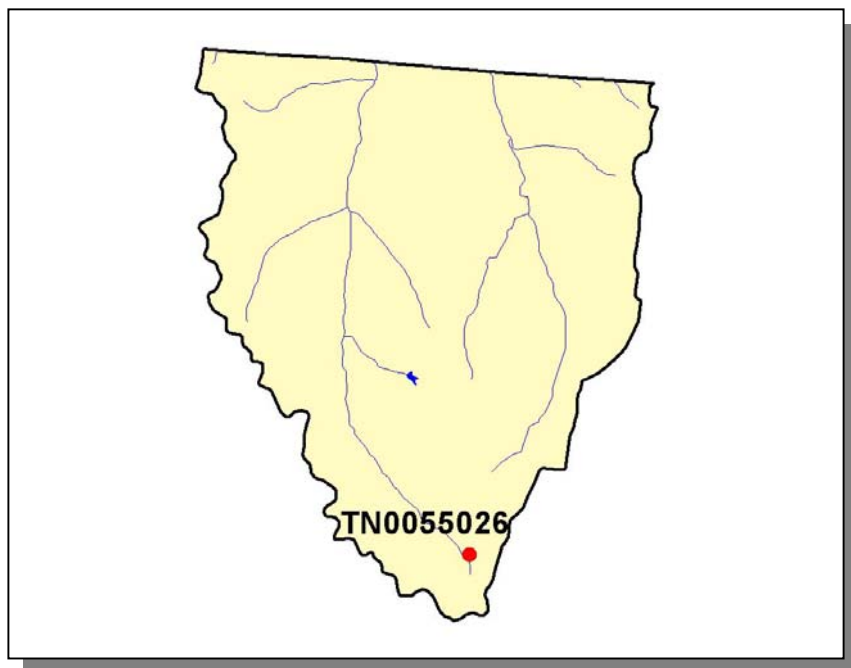
CROPS	TONS/ACRE/YEAR
Grass (Pastureland)	0.46
Grass (Hayland)	0.31
Legumes (Hayland)	0.12
Legumes, Grass (Hayland)	0.23
Grass, Forbs, Legumes (Mixed Pasture)	0.54
Corn (Row Crops)	12.32
Soybeans (Row Crops)	11.27
Other Cropland not Planted	19.23
Conservation Reserve Program Lands	0.26
Farmsteads and Ranch Headquarters	0.34

**Table 4-82. Annual Estimated Total Soil Loss in Subwatershed 051100020802.**

**4.2.D.ii.a.i.** Dischargers to Water Bodies Listed on the 2004 303(d) List

There is one NPDES facility discharging to water bodies listed on the 2004 303(d) list in Subwatershed 051100020802:

- TN0055026 (Westmoreland STP) discharges to Little Trammel Creek @ RM 9.9



**Figure 4-95. Location of NPDES Dischargers to Water Bodies Listed on the 2004 303(d) List in Subwatershed 051100020802.** More information, including the names of facilities, is provided in Appendix IV.

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PERMIT #	1Q10	3Q10	7Q10	3Q20	QDESIGN
TN0055026				0	

**Table 4-83. Receiving Stream Flow Information for NPDES Dischargers to Waterbodies Listed on the 2004 303(d) List in Subwatershed 051100020802.** Data are in million gallons per day (MGD). Data were obtained from the USGS publication Flow Duration and Low Flows of Tennessee Streams Through 1992 or from permit files.

PERMIT #	P	N	Cu	Pb	Ni	As	Cd	Se	Hg	Mo
TN0055026	X	X	X	X	X	X	X	X	X	X

**Table 4-84. Monitoring Requirements for NPDES Dischargers to Waterbodies Listed on the 2004 303(d) List in Subwatershed 051100020802.**

PERMIT #	WET	CBOD <sub>5</sub>	FECAL COLIFORM	NH <sub>3</sub>	TRC	TSS	SETTLEABLE SOLIDS	DO	pH
TN0055026	X	X	X	X	X	X	X	X	X

**Table 4-85. Parameters Monitored for Daily Maximum Limits for NPDES Dischargers to Waterbodies Listed on the 2004 303(d) List in Subwatershed 051100020802.** WET, Whole Effluent Toxicity; CBOD<sub>5</sub>, Carbonaceous Biochemical Oxygen Demand (5-Day); TRC, Total Residual Chlorine; TSS, Total Suspended Solids.